

HIGH FREQUENCY DIELECTRIC CERAMIC COMPOSITION, DIELECTRIC
RESONATOR, DIELECTRIC FILTER, DIELECTRIC DUPLEXER, AND
COMMUNICATION DEVICE

ABSTRACT OF THE DISCLOSURE

A high frequency dielectric ceramic composition includes: as a major component a composition which contains a rare earth element (Re), Al, Sr, and Ti as metal elements and has a composition formula expressed by a molar ratio of $a\text{Re}_2\text{O}_3 - b\text{Al}_2\text{O}_3 - c\text{SrO} - d\text{TiO}_2$ in which a, b, c, and d satisfy the following formula; $0.113 \leq a \leq 0.172$, $0.111 \leq b \leq 0.171$, $0.322 \leq c \leq 0.388$, $0.323 \leq d \leq 0.396$, and $a + b + c + d = 1.000$; and 0.01 to 2 parts by weight on a Fe_2O_3 conversion basis of Fe as an element, based on 100 parts by weight of the major component.